

**REMARKS**

On June 10, 2010 Applicants' attorney and the Examiner discussed by telephone further concerns that the Examiner had regarding the amended claims submitted on March 24, and possible amendments to overcome the same. Applicants' attorney would like to thank the Examiner for her helpful comments. Applicants' attorney believes that this Supplemental Amendment will adequately address the Examiner's concerns.

**Amendments to Claims 4, 47 and 51 and New Claims 53 and 54**

Claim 4 has been amended to correct an obvious typographical error. Claims 47 and 51 have been amended and new Claims 53 and 54 have been added to more clearly define that which Applicants regard as the invention. Support for the amendments to Claims 47 and 51 can be found in the specification and the claims as originally filed. For example, page 9, lines 10-20 and page 22, lines 20-26 describe the use of nucleic acid probes to detect the presence of the EPM2B gene, thereby providing support for the amendment to Claim 47. Page 20, line 23 through page 21, line 31, Table 1, and original Claims 6-25 describe methods for detecting specific mutations in the EPM2B gene comprising SEQ ID NO: 1, thereby providing support for the amendment to Claim 51. Page 20, lines 14-22 describes a method of detecting the presence of Lafora's disease in a sample obtained from a human, thereby providing support for new Claims 53 and 54.

No new matter has been added in the amendments to Claims 4, 47 and 51 or in new Claims 53 and 54. Entry of the amendments to the Claims 4, 47, and 51 and new Claims 53 and 54 is requested.

**Rejoinder of Claim 49**

It is believed that currently amended Claim 4 is allowable. Claim 49 depends from and further limits Claim 4 and should be rejoined with the examined claims. Thus, Applicants respectfully request that Claim 49 be rejoined and allowed. .

Supplemental Information Disclosure Statement

A Supplemental Information Disclosure Statement (SIDS) is being filed concurrently herewith. Entry of the SIDS is respectfully requested.

**CONCLUSION**

In view of the above amendments and remarks, it is believed that all claims are in condition for allowance, and it is respectfully requested that the application be passed to issue. If the Examiner feels that a telephone conference would expedite prosecution of this case, the Examiner is invited to call the undersigned.

Respectfully submitted,

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